

TETRA TECH, INC
POST OFFICE BOX 675
NEWARK, DELAWARE 19715-0675
TELEPHONE (302) 738 7551



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CONFIDENTIAL

January 28, 1992
TCN 4222-06

Mr. Gregory Ham
U.S. Environmental Protection Agency
Region III
841 Chestnut Building
Ninth and Chestnut Streets
Philadelphia, PA 19107

Dear Mr. Ham:

SUBJECT: FINAL REPORT - EPA DSN: WV-412 CERCLIS NO. WVD988768735 - NEW CUMBERLAND DRUM DUMP NEW CUMBERLAND, HANCOCK COUNTY, WEST VIRGINIA

Submitted herewith is the final Preliminary Assessment letter report for the subject site. The contents of this report are based on an evaluation of information contained in the site files provided, on the results of a review of hydrogeologic literature, and on data collected during a field evaluation performed in October 1991. Based on this review, the following is offered for EPA's consideration:

- It is recommended that no further action under CERCLA be conducted at the site. A Hazard Ranking System (HRS) PA-score of 0 was obtained for the site. This figure is based on available information and is based on the fact that no waste is present on site.

The New Cumberland Drum Dump Site is located in the Ohio River at the New Cumberland Locks and Dam in New Cumberland, Hancock County, West Virginia.

In April 1990, a 55 gallon plastic drum was removed from the river. The contents of the drum were sampled and found to contain no hazardous waste. The drum was referred to the West Virginia Department of Environmental Resources (WVDNR) for disposal.

In April 1991, USEPA was notified of a thick greasy coating on the Ohio River at the New Cumberland Locks and Dam. USEPA responded, determined that the substance was too thin to sample and recommended no further action.

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Mr. Gregory Ham
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Tetra Tech, Inc. conducted a preliminary assessment of the subject site in October 1991. No waste was observed on site.

If you have any questions, please feel free to contact me.

Respectfully submitted by:

Reviewed by:

Non Responsive based on Revised Scope

Environmental Scientist

Project Manager

Approved by:

Non Responsive based on Revised Scope

Non Responsive based on Revised Scope

Ph.D., P.E.

Program Director

dab

Enclosure

PA-Score 1.0 Scoresheets
New Cumberland Drum Dump - 11/26/91

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OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM				IDENTIFICATION				
				State: WV		CERCLIS Number: WVD988768735		
				CERCLIS Discovery Date: 4-90				
1. General Site Information								
Name: New Cumberland Drum Dump				Street Address: Ohio River				
City: New Cumberland		State: WV	Zip Code:	County: Hancock	Co. Code: 029	Cong. Dist: 01		
Latitude: 40 39' 17.0"		Longitude: 80 37' 30.0"	Approx. Area of Site: 0 sq feet		Status of Site: NA (GW plume, etc.)			
2. Owner/Operator Information								
Owner: N/A				Operator: N/A				
Street Address:				Street Address:				
City:				City:				
State:	Zip Code:	Telephone:		State:	Zip Code:	Telephone:		
Type of Ownership: State				How Initially Identified: Incidental				

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: WV CERCLIS Number:
WVD988768735

CERCLIS Discovery Date:
4-90

3. Site Evaluator Information

Name of Evaluator: [Redacted] Agency/Organization: Tetra Tech, Inc./ ARCS Date Prepared: 11-26-91

Street Address: Plaza 273; 56 West Main St. City: Christiana State: DE

Name of EPA or State Agency Contact: Donna Santiago Telephone: (215) 597-1105

Street Address: 841 Chestnut Building City: Philadelphia State: PA

4. Site Disposition (for EPA use only)

Emergency
Response/Removal
Assessment
Recommendation: No

CERCLIS
Recommendation:
NFRAP

Signature:

Name: [Redacted]
[Redacted]

Date:

Date:

Position:
Environmental Scientist

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: WV CERCLIS Number:
WVD988768735

CERCLIS Discovery Date:
4-90

5. General Site Characteristics

Predominant Land Uses Within
1 Mile of Site:
Industrial
Residential
Mining

Site Setting:
Rural

Years of Operation:
Beginning Year: 0
Ending Year: 0
X Unknown

Type of Site Operations:
Other:
River

Waste Generated:
Offsite

Waste Deposition Authorized
By: Unauthorized

Waste Accessible to the Public
No

Distance to Nearest Dwelling,
School, or Workplace:
1000 Feet

6. Waste Characteristics Information

No Sources

General Types of Waste:
Other:
None

Physical State of Waste as Deposited
Liquid

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM		IDENTIFICATION	
		State: WV	CERCLIS Number: WVD988768735
		CERCLIS Discovery Date: 4-90	
7. Ground Water Pathway			
Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: No	List Secondary Target Population Served by Ground Water Withdrawn From:	
Type of Ground Water Wells Within 4 Miles: Municipal Private	Have Primary Target Drinking Water Wells Been Identified: No	0 - 1/4 Mile	0
		>1/4 - 1/2 Mile	53
		>1/2 - 1 Mile	121
Depth to Shallowest Aquifer: 0 Feet		>1 - 2 Miles	265
		>2 - 3 Miles	333
Karst Terrain/Aquifer Present: No	Nearest Designated Wellhead Protection Area: None within 4 Miles	>3 - 4 Miles	182
		Total	954

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: WV | CERCLIS Number: WVD988768735

CERCLIS Discovery Date: 4-90

8. Surface Water Pathway

Part 1 of 4

Type of Surface Water Draining
Site and 15 Miles Downstream:
River

Shortest Overland Distance From Any
Source to Surface Water:

0 Feet
0.0 Miles

Is there a Suspected Release to
Surface Water: No

Site is Located in:
Annual - 10 yr floodplain

8. Surface Water Pathway

Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: No

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:
None



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January 28, 1992
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Mr Gregory Ham
U S Environmental Protection Agency
Region III
841 Chestnut Building
Ninth and Chestnut Streets
Philadelphia, PA 19107

Dear Mr Ham

**SUBJECT: Peer Review Comments - USEPA DSN WV-412, CERCLIS NO WVD988768735,
New Cumberland Drum Dump site, New Cumberland, Hancock County, WV
ARCS CONTRACT NO 68-W8-0092, WORK ASSIGNMENT NO 92-22-3JZZ**

In response to peer review comments by Donna Santiago, USEPA REGION III Site Investigation Officer, the following is offered:

1. The change has been made to the title page
- 2 Page 3 of the PA-scoresheets is completed only if primary targets are identified
- 3 EPA Form 2070 has been included as requested

In response to comments by Thomas Blake of the West Virginia Department of Commerce, Labor, and Environmental Resources, the following is offered.

- 1 It is not in the scope of a letter report to include references
- 2 The two incidences are related only in that they occurred in the same area, as is stated in the report
- 3 All information provided by USEPA has been included
- 4 USEPA Form 2070-12 has been included

If you have any questions please call me at (302) 738-7551

Respectfully submitted

Non Responsive based on Revised Scope

Environmental Scientist

dab

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

ORIGINAL
IDENTIFICATION

State: WV CERCLIS Number:
WVD988768735

CERCLIS Discovery Date:
4-90

8. Surface Water Pathway

Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name	Water Body Type/Flow(cfs)
Ohio River	large river/ >10000

8. Surface Water Pathway

Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) No

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:

None

Other Sensitive Environments Along the Surface Water Migration Path: No

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:

None

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IDENTIFICATION

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

State: WV | CERCLIS Number: WVD988768735

CERCLIS Discovery Date: 4-90

9. Soil Exposure Pathway

Are People Occupying Residences or
Attending School or Daycare on or
Within 200 Feet of Areas of Known
or Suspected Contamination: No

Number of Workers Onsite: None

Have Terrestrial Sensitive Environments Been Identified on or Within
200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:
Onsite 0
0 - 1/4 Mile 0
>1/4 - 1/2 Mile 0
>1/2 - 1 Mile 0
>1 - 2 Miles 0
>2 - 3 Miles 0
>3 - 4 Miles 0
Total 0

Is There a Suspected Release to Air: No

Wetlands Located
Within 4 Miles of the Site: No

Other Sensitive Environments Located
Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

HAZARDOUS WASTE SITE INVESTIGATION REPORT

Site Name: New Cumberland Drum Dump
CERCLIS ID No.: WVD988768735
Street Address: Ohio River
City/State/Zip: New Cumberland, WV

Investigator: Non Responsive based on Revised Scope
Agency/Organization: Tetra Tech, Inc./ ARCS
Street Address: Plaza 273; 56 West Main St.
City/State: Christiana, DE

Date: 11-26-91

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WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

Waste Characteristics Score: WC = 0

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Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	N
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	N
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	N
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	N
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

No waste is present on site.

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Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)

Has any nearby drinking water well been closed? (y/n/u)

Has any nearby drinking water well user reported
foul-testing or foul-smelling water? (y/n/u)

Does any nearby well have a large drawdown/high production rate? (y/n/u)

Is any drinking water well located between the site and other wells
that are suspected to be exposed to a hazardous substance? (y/n/u)

Does analytical or circumstantial evidence suggest contamination
at a drinking water well? (y/n/u)

Does any drinking water well warrant sampling? (y/n/u)

Other criteria? (y/n)

PRIMARY TARGET(S) IDENTIFIED? (y/n)

Summarize the rationale for Primary Targets:

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GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)			No
Is the site located in karst terrain? (y/n)			No
Depth to aquifer (feet):			0
Distance to the nearest drinking water well (feet):			1000
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	19	
5. NEAREST WELL	0	18	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	0	5	
T =	0	42	

WASTE CHARACTERISTICS

WC = 0 0

GROUND WATER PATHWAY SCORE:

0

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Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
Total				




Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	53		3
Greater than 1/2 to 1 mile	121		5
Greater than 1 to 2 miles	265		3
Greater than 2 to 3 miles	333		7
Greater than 3 to 4 miles	182		1
Total			19

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Apportionment Documentation for a Blended System



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Surface Water Pathway Criteria List
Suspected Release

Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	N
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	N
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

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Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
N Drinking water intake
Y Fishery
N Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water
contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N
N Drinking water intake
N Fishery
N Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -----

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continued -----

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

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SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

Pathway Characteristics			Ref.
Do you suspect a release? (y/n)	No		
Distance to surface water (feet):	0		
Flood frequency (years):	1-10		
What is the downstream distance (miles) to:			
a. the nearest drinking water intake?	N.A.		
b. the nearest fishery?	0.0		
c. the nearest sensitive environment?	N.A.		
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

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Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	5	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					
Total Primary Target Population Value					0
Total Secondary Target Population Value					0

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Apportionment Documentation for a Blended System

Empty box for documentation content.

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Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	12	
T =	0	12	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Ohio River	N	>10000 cfs		12
Total Primary Fisheries Value				0
Total Secondary Fisheries Value				12

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Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	0	
T =	0	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
None				
Total Primary Sensitive Environments Value				0
Total Secondary Sensitive Environments Value				0

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	5	0	0
Human Food Chain	500	12	0	0
Environmental	500	0	0	0

SURFACE WATER PATHWAY SCORE: 0

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

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SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

	Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No
Is the facility active? (y/n):	No

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS None	0	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	5	

WASTE CHARACTERISTICS

WC =	0
------	---

RESIDENT POPULATION THREAT SCORE:

0

NEARBY POPULATION THREAT SCORE:

1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE:

1

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Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		

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Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	N
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

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AIR PATHWAY SCORESHEETS

Pathway Characteristics

Pathway Characteristics			Ref.
Do you suspect a release? (y/n)		No	
Distance to the nearest individual (feet):		1000	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	0	
5. NEAREST INDIVIDUAL	0	0	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	10	
8. RESOURCES	0	5	
T =	0	15	

WASTE CHARACTERISTICS

WC =	0	0
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AIR PATHWAY SCORE:

0

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	0		0
Greater than 0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	0		0
Greater than 1 to 2 miles	0		0
Greater than 2 to 3 miles	0		0
Greater than 3 to 4 miles	0		0
Total Secondary Population Value			0

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Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			
Total Secondary Sensitive Environments Value			10

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SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	0
SURFACE WATER PATHWAY SCORE:	0
SOIL EXPOSURE PATHWAY SCORE:	1
AIR PATHWAY SCORE:	0
SITE SCORE:	0

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SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

If yes, identify the well(s).

If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?

- | | |
|--|----|
| A. Drinking water intake | No |
| B. Fishery | No |
| C. Sensitive environment (wetland, critical habitat, others) | No |

If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

If yes, explain:

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REFERENCE LIST